

Form PTO-1449
(Rev. 8-83)U.S. Department of Commerce
Patent and Trademark Office

Atty Docket 0756-2434

Serial No. 10/074,050

INFORMATION DISCLOSURE STATEMENT

Applicants: Shunpei YAMAZAKI et al.

Filing Date: February 14, 2002

Group Art Unit: N/A

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
Dh	5,529,937	06/25/1996	Zhang et al.			
	5,608,232	03/04/1997	Yamazaki et al.			
	5,639,698	06/17/1997	Yamazaki et al.			
	5,773,327	06/30/1998	Yamazaki et al.			
	5,814,540	09/29/1998	Takemura et al.			
	5,869,363	02/09/1999	Yamazaki et al.			
	5,888,858	03/30/1999	Yamazaki et al.			
	5,893,730	04/13/1999	Yamazaki et al.			
	5,897,347	04/27/1999	Yamazaki et al.			
	5,915,174	06/22/1999	Yamazaki et al.			
	5,949,115	09/07/1999	Yamazaki et al.			
	5,956,579	09/21/1999	Yamazaki et al.			
	5,977,559	11/02/1999	Zhang et al.			
	5,985,740	11/16/1999	Yamazaki et al.			
	6,027,987	02/22/2000	Yamazaki et al.			
	6,048,758	04/11/2000	Yamazaki et al.			
	6,063,654	05/16/2000	Ohtani			
	6,066,518	05/23/2000	Yamazaki			
	6,071,764	06/06/2000	Zhang et al.			
	6,072,193	06/06/2000	Ohnuma et al.			
	6,077,731	06/20/2000	Yamazaki et al.			
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	6,100,562	08/08/2000	Yamazaki et al.			
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	6,121,660	09/19/2000	Yamazaki et al.			
	6,133,073	10/17/2000	Yamazaki et al.			
Dh	6,133,075	10/17/2000	Yamazaki et al.			

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Date Considered

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03/28/2002

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De	6,133,119	10/17/2000	Yamazaki			
	6,153,445	11/28/2000	Yamazaki et al.			
	6,156,590	12/05/2000	Yamazaki et al.			
	6,156,628	12/05/2000	Ohnuma et al.			
	6,160,268	12/12/2000	Yamazaki			
	6,162,704	12/19/2000	Yamazaki et al.			
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	6,184,559	02/06/2001	Hayakawa et al.			
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	6,287,900	09/11/2001	Yamazaki et al.			
	6,291,275	09/18/2001	Yamazaki et al.			
	6,294,441	09/25/2001	Yamazaki			
	6,300,659	10/09/2001	Zhang et al.			
	6,303,415	10/16/2001	Yamazaki			
	6,303,963	10/16/2001	Ohtani et al.			
	6,307,214	10/23/2001	Ohtani et al.			
	6,316,789	11/13/2001	Yamazaki et al.			
De	6,316,810	11/13/2001	Yamazaki et al.			

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	Applicants: Shunpei YAMAZAKI et al.		
	Filing Date: February 14, 2002		Group Art Unit: N/A

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
He	05-109737	04/30/1993	JP	—	—	Full Eng	

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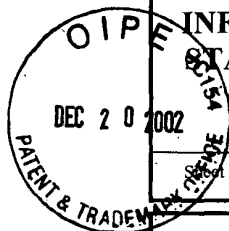
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Substitute for form 1449A/PTO		Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/074,050	
		Filing Date	February 14, 2002	
		First Named Inventor	Shunpei YAMAZAKI et al.	
		Group Art Unit	2812	
		Examiner Name	Unassigned	
1	of	3	Attorney Docket Number	0756-2434



U.S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
De		3,535,775		Garfinkel et al.	10/27/1970	
		4,371,403		Ikubo et al.	02/01/1983	
		4,477,308		Gibson et al.	10/16/1984	
		4,534,820		Mori et al.	08/13/1985	
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		5,275,896		Garofalo et al.	01/04/1994	
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		5,616,506		Takemura	04/01/1997	
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		5,621,224		Yamazaki et al.	04/15/1997	
		5,624,851		Takayama et al.	04/29/1997	
		5,637,515		Takamura	06/10/1997	

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Substitute for form 1449A/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT DEC 20 2002 (use as many sheets as necessary) Sheet _____ of 3		Application Number	10/074,050
		Filing Date	February 14, 2002
		First Named Inventor	Shunpei YAMAZAKI et al.
		Group Art Unit	2812
		Examiner Name	Unassigned
		Attorney Docket Number	0756-2434

U.S. PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
Dh		5,646,424		Zhang et al.	07/08/1997	
		5,654,203		Ohtani et al.	08/05/1997	
		5,656,825		Kusumoto et al.	08/12/1997	
		5,663,077		Adachi et al.	09/02/1997	
		5,677,549		Takayama et al.	10/14/1997	
		5,696,386		Yamazaki	12/09/1997	
		5,696,388		Funada et al.	12/09/1997	
		5,705,829		Miyanaga et al.	01/06/1998	
		5,712,191		Nakajima et al.	01/27/1998	
		5,744,824		Kousai et al.	04/28/1998	
		5,843,225		Takayama et al.	12/01/1998	
		5,923,962		Ohtani et al.	07/13/1999	
		6,022,458		Ichikawa	02/08/2000	
		6,180,439	B1	Yamazaki et al.	01/30/2001	
		6,255,195	B1	Linn et al.	07/03/2001	
		6,285,042	B1	Ohtani et al.	09/04/2001	
Dh		6,376,336		Boynaski	04/23/2002	
		6,396,147		Adachi	05/28/2002	
		2001/0034088	A1	Nakamura et al.	10/25/2001	

FOREIGN PATENT DOCUMENTS							
Examiner Initials [*]	Cite No. ¹	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴	Kind Code ⁵ (if known)			
Dh		EP	0 651 431	A2		05/03/1995	English
		JP	07-130652			05/19/1995	Abstract
		JP	08-078329			03/22/1996	Abstract
		JP	09-074207			03/18/1997	Full
		JP	2000-260777			09/22/2000	Abstract
Dh		JP	2001-210828			08/03/2001	Abstract
		JP	3032801			02/18/2000	Abstract

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First Named Inventor	Shunpei YAMAZAKI et al.
Group Art Unit	2812
Examiner Name	Unassigned
Attorney Docket Number	0756-2434

Sheet 3 of 3

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
De		U.S. Patent Application Serial No. 10/051,064, "Semiconductor Device and Method of Manufacturing the Same", Takashi Hamada et al., January 18, 2002.	
		U.S. Patent Application Serial No. 10/056,055, including specification, drawings and filing receipt, "Semiconductor Device and Manufacturing Method of the Same", Osamu Nakamura et al., January 28, 2002.	
		U.S. Patent Application Serial No. 10/097,641, including specification, drawings and filing receipt, "Method of Manufacturing a Semiconductor Device", Shunpei Yamazaki et al., March 15, 2002.	
		U.S. Patent Application Serial No. 10/072,931, including specification, drawings and filing receipt, "Method of Manufacturing a Semiconductor Device", Shunpei YAMAZAKI et al., filed February 12, 2002.	
		U.S. Patent Application Serial No. 10/020,961, including specification, drawings and filing receipt, "Method of Manufacturing Semiconductor Device and Semiconductor Device", Shunpei Yamazaki et al., December 19, 2001.	
		U.S. Patent Application Serial No. 10/066,542, including specification, drawings and filing receipt, "Semiconductor Device and Method for Manufacturing the Same", Osamu Nakamura et al., February 5, 2002.	
		M. Miyake et al., "Characteristics of Buried-Channel pMOS Devices with Shallow Counter-Doped Layers Fabricated Using Channel Preamorphization", IEEE Transactions on Electron Devices, Vol. 43, No. 3, March 1996, pp. 444-449.	
De		L. S. Lee et al., "Argon Ion-Implantation on Polysilicon or Amorphous-Silicon for Boron Penetration Suppression in p+ pMOSFET", IEEE Transactions on Electron Devices, Vol. 45, No. 8, August 1998, pp. 1737-1744.	

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Sheet	1	of	1
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Complete if Known

Application Number	10/074,050
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Group Art Unit	2812
Examiner Name	Unassigned
Attorney Docket Number	0756-2434



U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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Examiner Initials ²	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		D.J. Llewellyn et al., <i>Implantation and Annealing of Cu in InP for Electrical Isolation: Microstructural Characterisation</i> , IEEE, 1997, pages 313-316	
		Kevin S. Jones et al., <i>Boron Diffusion Upon Annealing of Laser Thermal Processed Silicon</i> , IEEE, 2000, pages 111-114	

Examiner Signature	<i>Doug Ankle</i>	Date Considered	4-04
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